PRIME WARRIOR
M&S Education
Tiger Team Review

BRIEFING BY:

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Purpose

An Information Briefing To:

- Present information on the Prime Warrior Course
- Describe the results of the formal offerings
- Describe the results of the METT offerings
- Discuss student critique responses
- Indicate future initiatives
- Solicit your support

Agenda

- Formal Offering Review
- METT Offerings Review

- Student Critiques
- Summary & Discussions

Prime Warrior Program

- To educate Airmen to:
  - Advocate and articulate the proper use of air and space power and to effectively use modeling and simulation tools available to them when participating in Joint wargames and exercises
  - Demonstrate the flexibility, responsiveness, and economy of force that air and space power offers to the Joint Force Commander

Course Emphasis Areas

- Ops Research and M&S Fundamentals
- USAF & Joint Service Doctrine
- Air Force Operations
- Air Force C4I and Planning Tools
- Wargame/Exercise Environment
- DoD Models and Data
- Practical Exercises

Course Outline

Administration and Testing

- Introduction and Pre-test
- Survey, Post-test, Graduation

Introduction to Ops Res

- Introduction to Ops Res
- Combat Prob. and Statistics
- Ops Res Examples

Wargames/Exercis

- PW Course Overview
- History and Fundamentals
- Wargame/Exercise Environment
- Measures of Merit and Scenarios
- Databases and Terrain
- Characteristics of DoD Wargame/Exercise
- Wargaming Practical Exercises (4)
- Overview of Primary DoD Models (8)

Doctrine and Operations

- Doctrine Review
- Doctrine Update
- Operational Staff Procedures
- Applications of Doctrine
- Doctrine Applications in Wargames/Exercises
- Operationalv Planning Tools Overview

Introduction to M&S

- Basic Concepts
- Hi. Resolution Modeling
- Hi. Res. Practical Exercise
- Aggregate Modeling

Type Instruction	Hours	Percent
Lecture/Conference	24	67
Demonstration	5	14
Practical Exercise	7	19
Total	**36**	**100**

Prime Warrior Schedule

Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:00	Intro & Pre-test	USAF Doctrine Review	Wargaming Fundamentals	DoD Model "JTLS" Overview	Combat Probability and Statistics
08:50	Prime Warrior Overview	Joint Service Doctrine Review	Characteristics of Wargames	Measures of Merit and Scenarios	Examples of OR Wargaming Tools
09:00	Intro to Operations Research	Doctrinal Updates	Wargaming Environment CAX	DoD Model "TACWAR" Overview	Applications of Doctrine in Wargames
09:50	Basic Concepts in Modeling and Sim.	Applications of Doctrine	DIS/HLA; JSIMS	DoD Model "Thunder" Overview	Survey, Post-test, and Graduation
10:00	Lunch	Lunch	Lunch	Lunch	
11:00	High Resolution Combat Models	PE 1 (Doctrine)	DoD Model "AWSIM" Overview	PE 5 (Analysis Models)	
11:50	Practical Exercises	Operational Staff & Procedures	DoD Model " CBS" Overview	DoD Model "ITEM" Overview	
12:00	Aggregate Res. Combat Models	Operational Planning Tools	DoD Model "ALSP" Overview	Databases and Terrain	
12:50		PE 2 (Opnl Tools)	PE 4 (Training Models)	PE 6 (Databases)	
13:00	Aggregate Res. Practical				

12 Successful Offerings Since July 1997

- July 1997, Prime Warrior Validation Course
- <u>FY98</u>
  - Nov 1997, First Official Offering
  - Six additional offerings in FY98 at Maxwell AFB
  - First Mobile Education/Training Teams (METT)
- <u>FY99</u>
  - First Two offerings of FY 99
  - Pentagon & AFAMS METTs

The Right Students Are Coming to the Course

AFWI Offerings	Average Pre-test Scores	Average Post-test Scores
– Validation 85.2	51.4	
– 01- 98	46.4	89.4
– 02 - 98	53.1	89.2
– 03 - 98	41.8	87.4
– 04 - 98	42.3	85.8
– 05 - 98	39.3	83.6
– 06 - 98	39.0	88.1
– 01 - 99	47.7	86.9
– 02 - 99	42.8	87.6

And leaving with the right information

AFWI Formal Course Attendance by Command

– ACC (C2TIC, SAS, ASC4ISRC)		22
– AETC (AWC, ACSC, ASBC, CADRE)		60
– Air Staff (XOC, XOJS, AFAMS)		14
– USAFE (WPC, Doctrine)		6
– AFOTEC		7
– AF Doctrine Center	9	
– AFRL (All locations)	19	
– AFSPACECOM	14	
– AFMC (OAS, AFLMA)		13
– PACAF (KASC, Hq)	4	
– AMC	2	
– USAFR	11	
– ANG	1	
– Other (NSA, OSD, SOF, Navy)		4

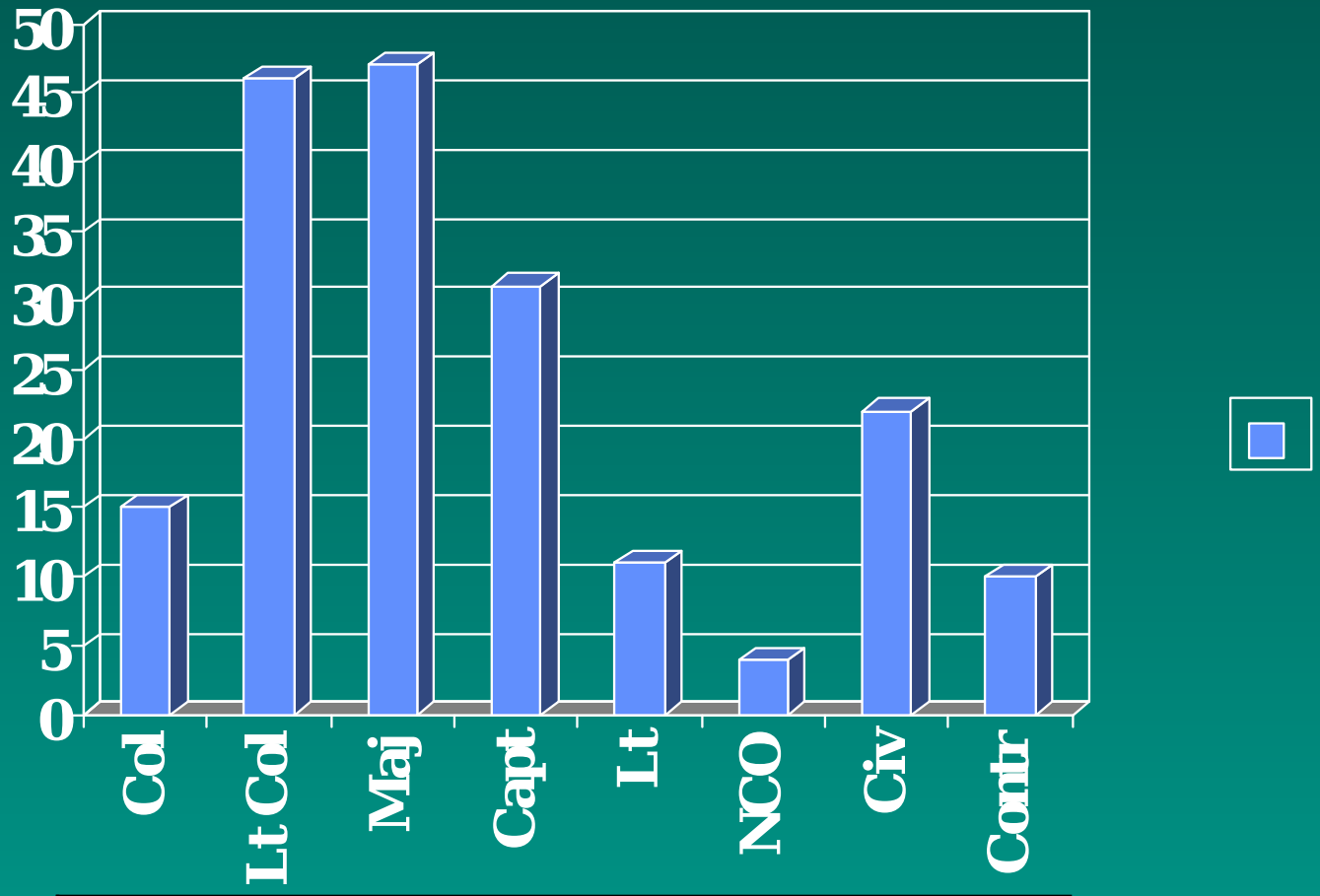
Total 186

AFWI Formal Course
Attendance by Rank

- Colonel 15
- Lieutenant Colonel 46
- Major 47
- Captain 31
- 1st/2d Lieutenant 11
- NCO 4
- Government Civilian 22
- Military Contractor 10

Total 186

The Right Ranks Are Attending



The Air & Space Operational Level Ranks

Prime Warrior METT Offerings

- All lessons (less computer assisted practical exercises)
- Lesson selection is tailored to operational needs
- Class of eight or more students anywhere is cost effective
- Slides, notebooks, and reference materials pre-shipped
- Special lessons constructed at your request
- No registration fees (thus far)
- Same high quality instruction as in residence

METT Team On-site Attendence by Rank

	USAFE (Ramstein)	PACAF (Osan)	XOC (Pentagon)	AFAMS (Orlando)
– Colonel	Variable (15 - 40)*	Variable (15 - 40)*		1
– Lieutenant Colonel			1	6
– Major			3	3
– Captain			5	
– 1st/2d Lieutenant				
– NCO				2
– Government Civilian			2	11
– Military Contractor				5
			5	Total 60+

*Variable attendance due to mission responsibilities

Average Student Response Scores

- Instructor was prepared for lesson 4.81
- Instructor had good stage manner 4.75
- The written material is current 4.80
- The written material is relevant 4.79
- The written material is understandable 4.53
- Readable, addresses subject, enhanced the presentation 4.54
- The format (lecture/seminar) was appropriate 4.58
- The objective was met for this lesson 4.64
- My expectation for this lesson was met 4.63
- I had little previous knowledge of the material taught 3.85

Scale: 1=Strongly Disagree, 2=Disagree, 3=Neutral, 4=Agree, 5=Strongly Agree

Critique Comments

- Course was outstanding and needs to be a requirement for anyone dealing in or participating in wargames to include all senior officers. (Lt. Col Peter Faber, Air Staff)
- Excellent course, well prepared and well presented. (Anon)
- Fire hose, but I really learned a lot. The book will become part of my desk library. (Anon.)
- As a Div. Chief of a M&S outfit this course was exactly what I needed. Instructors are some of the best I've seen. (Anon.)
- Mandatory attendance to a Prime Warrior course prior to NAF assignment is a step in the right direction. (Anon.)

Critique Comments

- The restrictions on time hurt. Another 2 or 3 days would be great. (Anon.)
- Wargaming 101, a must for anyone going into M&S. This course could easily be expanded to two weeks. (Anon.)
- Great wargaming course for the operational warfighter. (Anon)
- The handouts were excellent, keep them coming, they are a source of quick additional information. (Anon.)
- Attendance for my HQ AFDC/DO personnel will be mandatory. (Anon.)
- Great hands-on with the models. (Anon)

Action Response Comments

- Light colors were hard to see on the monitors. (Anon)
- Super, especially the Q&A with Col. McLaughlin and his experiences as JFACC afloat. (Anon)
- A handout which synthesizes and collects the primary info about each model (SIMTAX) would be most helpful. (Anon.)
- Good idea to have optional briefings for extra info. (Anon.)
- Recommend you advertise the course on AFAMS and DMSO home pages. (Anon.)
- Good job, now the tough part is to keep the slides up to date and the enthusiasm high when teaching the course--keep it vibrant and alive. (Lt. Col. Witt, XOC)
- Acronym hell. (Anon.)

Summary

- Short course
- Latest and greatest doctrine and operations
- The right course-curriculum
  - Review of Operational Force Structure, Operational Planning, Operation Planning Tools
  - Fundamentals on Modeling and Simulation and Operation Research Applications
  - Wargaming and Exercises
- Tailored to AF practitioners
  - Operators and planners
  - Intel and logisticians
  - Your future exercise participants

Contact Information at AU

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Future Developments

- **Distance Learning**
  - Correspondence prerequisites training
  - Correspondence core lessons training
  - Computer Based Training (CBT)
- **Multi-media and computer driven training**
  - Internet teaching
  - CD ROM Course
  - Extracts of Models and Tools